

user inside or outside the mobile communications network system, the processing method comprising the steps of:

notifying a domain-name server of an IP address of the user in the mobile communications network system including a location address and a user identifier of the user in the mobile communications network system, when an access link is established between the user in the mobile communications network system and the mobile communications network system; and

C1 storing the notified IP address in connection with a domain name of the user in the mobile communications network system, in a database in the domain-name server.

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D1 27. A processing method in a mobile communications network system for routing a packet using an IP address between a user in a mobile communications network system and a user inside or outside the mobile communications network system, the processing method comprising the steps of:

generating, at a domain-name server, an IP address of the user in the mobile communications network system including a location address and a user identifier of the user in the mobile communications network system by acquiring the location address of the user in the mobile communications network system from an apparatus managing the location address of the user in the mobile communications network system; and

storing the generated IP address in connection with a domain name of the user in the mobile communications network system, in a database in the domain-name server.

28. A mobile communications network system for routing a packet using an IP address between a user in a mobile communications network system and a user inside or outside the mobile communications network system, the mobile communications network system comprising:

a domain-name server; and

means for notifying the domain-name server of an IP address of the user in the mobile communications network system including a location address and a user identifier of the user in the mobile communications network system, when an access link is established between the user in the mobile communications network system and the mobile communications network system,

wherein the domain-name server includes a database storing the notified IP address in connection with a domain name of the user in the mobile communications network system.

29. A mobile communications network system for routing a packet using an IP address between a user in a mobile communications network system and a user inside or outside the mobile communications network system, the mobile communications network system comprising a domain-name server, the domain-name server comprising:

means for generating an IP address of the user in the mobile communications network system including a location address and a user identifier of the user in the mobile communications network system by acquiring the location address of the user in the mobile communications network system from an apparatus managing the location address of the user in the mobile communications network system; and

a database storing the generated IP address in connection with a domain name of the user in the mobile communications network system.

30. A mobile communications network system for routing a packet using an IP address between a user in a mobile communications network system and a user inside or outside the mobile communications network system, the mobile communications network system comprising an access link termination node and a domain-name server, wherein

the access link termination node comprises:

access link management means for establishing or releasing an access link;

means for storing own location address;

means for storing location registration information in a memory in response to a location registration request from a user, and for providing the own location address to the user;

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and

means for transmitting the location registration information to the domain-name server in response to the location registration request from the user, and

the domain-name server comprises:

a database storing an IP address of the user including the provided location address and a user identifier in connection with a domain name of the user;

means for receiving the location registration information from the access link termination node; and

means for updating the IP address using the received location registration information.--